The information below is an abbreviated outline of technical requirements - it is not intended as a substitute for the manuals, training, and reference information provided by the product vendor and the Department for additional information.

The information below is an abbreviated outline of technical requirements - it is not intended as a substitute for the manuals, training, and reference information provided by the product vendor and the Department for additional information. Technical Specifications Version 2: 4/13/2016 Windows PC* Deskt op * MACs * Chr omebook* iOS* Andr oid Devices* Tabl et s										
Assessment	The ACT®	ACT WorkKeys®	ACCESS for ELLs®	Alternate ACCESS for ELLs®	EOCEP	SCPASS	SC READY	4K and 5K Readiness	SC-NCSC Alternate Assessment	SC-Alt Alternate Assessment
Testing Population	Grade 11	Grade 11	Grades K-12	Grades 1-12	Grades - Middle, High, Alternative, Virtual, Home Course Specific	Grades 4-8	Grades 3-8	4K and 5K	Grades 3-8, 11	Grades 4-8, 11
Online testing	In 2015-16 online testing is an option; paper test materials are also available.	In 2015-16 online testing is an option; paper test materials are also available.	In 2015-16 online testing is an option for grades 1-12 only.	In 2015-16 online testing is not an option.	In 2015-16 online testing is an option.	In 2015-16 online testing is an option.	In 2015-16 online testing is an option.	The 4K Teaching Strategies GOLD is an online assessment system.	In 2015-16 online testing is an option	In 2015-16 online testing is not an option.
Hardware	Laptops, and desktops are supported - touchscreens not supported. Chromebooks are supported only when used with installable app software (see Installable App Software Requirements below, and when other requirements are met).	Laptops and desktops only, no tablets. No Chromebooks.	Desktop, Laptops, Netbooks/tablets, Chromebooks, iPad 2/ iPad Air (keyboard strongly recommended), Android, Windows tablets	N/A	Desktop, Laptops, Netbooks/tablets, Chromebooks, iPad 2/ iPad Air (keyboard strongly recommended), Android, Windows tablets	Desktop, Laptops, Netbooks/tablets, Chromebooks, iPad 2/ iPad Air (keyboard strongly recommended), Android, Windows tablets	Desktop, Laptops, Netbooks/tablets, Chromebooks, iPad 2/ iPad Air (keyboard strongly recommended), Android, Windows tablets	PC	Windows Desktop, Mac, Chromebook	N/A
Memory	Windows: 512 RM RAM, Mac: 1 GB RAM, Chromebook: 2 GB RAM	None specified.	Per DRC: Min 512 MB RAM, Recommended: 1 GB RAM or greater (TSM software 4 GB RAM per 150 students (concurrently testing)	NI/Δ	Per DRC: Min 512 MB RAM, Recommended: 1 GB RAM or greater (TSM software 4 GB RAM per 150 students (concurrently testing)	Per DRC: Min 512 MB RAM, Recommended: 1 GB RAM or greater (TSM software 4 GB RAM per 150 students (concurrently testing)	Per DRC: Min 512 MB RAM, Recommended: 1 GB RAM or greater (TSM software 4 GB RAM per 150 students (concurrently testing)	None specified.	None specified.	N/A
Processor	Windows: x86/x32 and x64. Mac: only Intel-based. Chromebook (ChromeOS) Any.	None specified.	Win 1.0 GHz or >, MAC & Chrome 2GB or > Tablets - Androids 5.0 or >, iPad 2+	N/A	Win 1.0 GHz or >, MAC & Chrome 2GB or > Tablets - Androids 5.0 or >, iPad 2+	Win 1.0 GHz or >, MAC & Chrome 2GB or > Tablets - Androids 5.0 or >, iPad 2+	Win 1.0 GHz or >, MAC & Chrome 2GB or > Tablets - Androids 5.0 or >, iPad 2+	None specified.	Win 1.0 GHz or > MAC & Chrome 2GB or >	N/A
Operating System	Testing can occur using a browser-based testing, or Installable App-based testing, unless using Chromebooks, which require the Installable app. See the Browser-based and Installable App-based requirements below.	Windows 7, 8 MAC OS 10 x x (using the Firefox web browser only)	Win 7 or > , MAC OSX 10.7 or >, Chrome (stable channel), iPad 2/iPad Air (Apple iOS 9.3.1)> or >, Android (Lollipop 5.0) or > , Win Tablet Win 8.0 >		Win 7 or > , MAC OSX 10.7 or >, Chrome (stable channel), iPad 2/iPad Air (Apple iOS 9.3.1)> or >, Android (Lollipop 5.0) or > , Win Tablet Win 8.0 >	Win 7 or > , MAC OSX 10.7 or >, Chrome (stable channel), iPad 2/iPad Air (Apple iOS 9.3.1)> or >, Android (Lollipop 5.0) or > , Win Tablet Win 8.0 >	Win 7 or >, MAC OSX 10.7 or >, Chrome (stable channel), iPad 2/iPad Air (Apple iOS 9.3.1)> or >, Android (Lollipop 5.0) or >, Win Tablet Win 8.0 >	Windows XP SP2 or later Mac (OS X 10.6 or later)	Win Vista SP 2, 7 or 8, MAC OSX 10.7, Tiger 10.4.4, Leopard 10.5, Snow Leopard 10.6, Lion 10.7, Mountain Lion 10.8 or >	N/A
Browser Support	Browser Operating Systems Java 1.8		I.E. 9, 10, 11 Safari 6.1.5 & 7.0 Firefox (35 or >) Chrome (stable channel) Note: the iPad application is available (keyboard strongly recommended)	N/A	INSIGHT secure web browser or Chrome (stable channel) Note: the iPad application is available (keyboard strongly recommended)	INSIGHT secure web browser or Chrome (stable channel) Note: the iPad application is available (keyboard strongly recommended)	INSIGHT secure web browser or Chrome (stable channel) Note: the iPad application is available (keyboard strongly recommended)	Safari 6.0 or newer Google Chrome 26.0 or newer I.E. 8 or newer Firefox 18.0 or newer	I.E. 9 Chrome 26 Firefox 24 Opera 12 Safari 6	N/A
Connectivity	See Network Speed below	See Network Speed below	Computers must be able to connect to the Internet via wired networks (wireless requires special provisions - check the specs on the website) Per DRC: External Internet Connection With Caching 50 KB per second per	N/A	Computers must be able to connect to the Internet via wired networks (wireless requires special provisions - check the specs on the website)	Computers must be able to connect to the Internet via wired networks (wireless requires special provisions - check the specs on the website)	Computers must be able to connect to the Internet via wired networks (wireless requires special provisions - check the specs on the website) Per DRC: External Internet Connection With Caching 50 KB per second per	Refer to: http://teachingstrategies.com/content/pageDocs/GOLD-System-Requirements-7-3-13.pdf	Computers must be able to connect to the Internet via wired networks (wireless requires special provisions - check the specs on the website)	N/A
Network Speed	A network connection of 100 Mbps full-duplex or higher (the minimum is 10/100)	Broadband (256 Kbits/second or faster sustained download capacity to the workstation)		N/A	student	student	student Per DRC: External Internet Connection With Caching 30 KB per second per student Per DRC: External Internet Connection Without Caching 100KB per second per student	A minimum unload and download speed of 200 kbps (kilobits per second)	External Internet Connection 1.5 Mbps per student Internal School Network 1.5 Mbps per student	N/A
SYSTEMS requirements			Mac 10.8 and 10.9 require Java runtime version 7 Update 51 (1.7.0_51) or later	N/A	Virtual and Native environments apply. See Vendor recommendations	Virtual and Native environments apply. See Vendor recommendations	Virtual and Native environments apply. See Vendor recommendations	Java-based browser required.	Browser must support cookies and Javascript enabled.	
(plug ins, pop-ups, read/write access, etc.)			No Information	N/A	Not allowed - See recommendations per assessment websites	Not allowed - See recommendations per assessment websites	Not allowed - See recommendations per assessment websites	Not Specified	Not Specified	N/A
Firewalls, Content, Spam Filters	Yes. Consult ACT.	Yes. Consult ACT.		N/A			Testing computers should have access to the Internet and be able to access the DRC servers using HTTP/HTTPS protocols on ports 80 & 443. Whitelists required			N/A
Screen Size	9.5" screen required	12" screen recommended	PC -10" screen size or larger	N/A	PC-10" screen (suggestion)	Per DRC Minimum 9.5", Recommended 13" or larger IOS 9.7" screen PC-10" screen (suggestion)	Per DRC Minimum 9.5", Recommended 13" or larger IOS 9.7" screen PC-10" screen (suggestion)		9.5" or larger	N/A
Screen Resolution Disk Space	1024 x 768 None specified.	1024 x 768 None specified.	1024 x 768 1 GB (downloading later browsers increase disk requirements)	N/A N/A	1024 x 768 1 GB (downloading later browsers increase disk requirements)	1024 x 768 1 GB (downloading later browsers increase disk requirements)	1024 x 768 1 GB (downloading later browsers increase disk requirements)	Not Specified Not Specified	1024 x 768 1 GB (downloading later browsers increase disk requirements)	N/A N/A
Input Device Requirements (Desktops, Laptops, Android, iPad, Chromebook)	Wired keyboard and mouse	Keyboard	Pointing Device (wireless requires special accommodations refer to website)	N/A	Pointing Device Recommended - Touch Screens (wireless requires special accommodations refer to website)	Pointing Device Recommended - Touch Screens (wireless requires special accommodations refer to website)	Pointing Device Recommended - Touch Screens (wireless requires special accommodations refer to website)	Not Specified Not Specified	Pointing Device (wireless requires special accommodations refer to website)	N/A
Interface Devices (Mice, Touchpads, Headphones, Earphone, Earbuds, Microphone) Requirements	Consult ACT.	Headphones (headphones with inline adjustable volume control preferred).	Headphones are required for specific tests such as text to speech accommodations for some assessments - Check the specs for assessments and grade levels.	·	·	Headphones are required for specific tests such as text to speech accommodations for some assessments - Check the specs for assessments and grade levels.	Headphones are required for specific tests such as text to speech accommodations for some assessments - Check the specs for assessments and grade levels.	Not Specified	Headphones are required for specific tests such as text to speech accommodations for some assessments - Check the specs for assessments and grade levels.	N/A
Other	Yes. Consult ACT vendor for additional requirements, including requirements for proctor caching, requirements for the installable app, Javsystem checks, and other requirements.	Yes. Consult ACT for additional requirements, including technical va, requirements for generating score reports.		N/A				Browser must be set to accept cookies in order to use system. Adobe Flash Player 11.2 or greater (free from adobe.com) is required for certain functions, such as uploading files to the system and participating i e-learning. Refer: http://teachingstrategies.com/content/pageDocs/GOLD-System-Requirements-7-3-13.pdf		N/A
Assistive Technologies	Consult ACT and SCDE for additional information.	Consult ACT and SCDE for additional information.		N/A					The consortium is working to validate compatibility with common assistive devices. NCSC will issue more detailed information as it's finalized	N/A
Consortium	N/A	N/A	DRC INSIGHT	DRC INSIGHT	DRC INSIGHT	DRC INSIGHT	DRC INSIGHT	N/A Note: Midges, PALs, and DRA2 are paper test and proctor enters student	National Center and State Collaborative	NA
Proctor Caching	SC will test using proctor caching. Consult ACT for additional technical requirements for proctor caching.			A proctor administered assessment.				response into online system for these particular programs. Gold is an online instructional system.	TPIOCION WORKS WITH THE STIMENT AND MAY BE A TEACHER WITH EDITERS TESTIONSES	A proctor administered assessment.
Security Notes:	_	CT that meets ACT technical specifications. This includes the use of student-	Eligible devices and operating systems must have the administrative tools and capabilities to "lock down" the device to temporarily disable features such as email, messaging, screen capture, unrestricted Internet access, etc.	N/A	and capabilities to "lock down" the device to temporarily disable features	and capabilities to "lock down" the device to temporarily disable features	Eligible devices and operating systems must have the administrative tools and capabilities to "lock down" the device to temporarily disable features such as email, messaging, screen capture, unrestricted Internet access, etc.	Not Specified	Not Specified	Not Specified
Assessment Website References for Technical Requirements	1. SCDE: https://ed.sc.gov/tests/high/the-act/ 2. For the vendor's technical requirements, see http://www.act.org/content/act/en/products-and-services/state-and- district-solutions/act-online-testing.html and consult ACT. District and school staff are provided with access to additional information on ACT's technical requirements, but that information is not made public.	1. SCDE: https://ed.sc.gov/tests/high/act-workkeys/ 2. For the vendor's technical requirements, see http://www.act.org/content/act/en/products-and-services/workforce- solutions/act-workkeys/administer.html and consult ACT. District and schoo staff are provided additional information on ACT's technical requirements, but that information is not made public.		N/A	1. DRC INSIGHT: http://www.ed.sc.gov/tests/tests-files/sc-ready-files/drc-insight-technology-user-guide-2016/https://www.wida.us/assessment/access20-tech.aspx 2. SETDA: http://gtr.setda.org/chart/#!/79	1. DRC INSIGHT: http://www.ed.sc.gov/tests/tests-files/sc-ready-files/drc-insight-technology-user-guide-2016/https://www.wida.us/assessment/access20-tech.aspx 2. SETDA: http://gtr.setda.org/chart/#!/79	1. DRC INSIGHT: http://www.ed.sc.gov/tests/tests-files/sc-ready-files/drc-insight-technology-user-guide-2016/https://www.wida.us/assessment/access20-tech.aspx 2. SETDA: http://gtr.setda.org/chart/#!/79	1.5K – DRA2 is published by Pearson: http://www.pearsonschool.com/index.cfm?locator=PSZ4Z4&PMDbProgra D=23663 2.4K – Gold is published by Teaching Strategies: http://shop.teachingstrategies.com/page/GOLD-assessment-online.cfm 3.4K- PALS is published by CaseNEX: https://pals.virginia.edu/rd-background.html 4.4K- midges is published by Early Learning Labs, .: http://www.myigdis.com/	1.SCDE:http://ed.sc.gov/scdoe/assets/File/tests/middle/ncsc/SC-NCSC_Assessment_System_User_Guide_for_Test_Coordinators_2016.pdf 2.SETDA:http://gtr.setda.org/chart/#!	N/A

Additional Information Resources:

USDE:: http://tech.ed.gov/files/2015/12/NETP16.pdf
SETDA:: https://www.edsurge.com/n/2014-05-12-setda-releases-guide-to-tech-requirements-for-online-testing

DLM Alternative Assessment System: http://dynamiclearningmaps.org/